X4D1H

PROFESSIONAL 4 CHANNEL REAL TIME D1 DVR

User Manual

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of unprotected 'Dangerous voltage' within the product's enclosure that may be strong enough to cause a risk of electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Notice: Ghosting or fractured images may occur on the screen when there is a suddenly surge or lightning stroke which cause damage on IC in the DVRs.

Table of Contents

Please Note: On-screen options such a number of Channels, Split Screen Options, Alarm inputs etc. used in this manual may differ from the actual model purchased (i.e. a 4 channel DVR will display 4 channel options and the 8 Channel will display 8 channel options).

CHAPTER 1 - MAIN MENU SETUP

To enter the main menu and set up the DVR a user log-in and password are required. The default password of the administrator is '**123456**'. Please check the section '**Account Setup**' for information on setting up other users.

Table 1-0.1 Virtual keyboard

Item	Description
⇧	Switch between capital and small letters.
.?123 / ABC	Switch between numbers and letters.
Esc	Press to cancel the setup, and re-enter the login account.
⌫	Delete the last character.
↵	Enter to confirm the password
	Space key

A successful log-in will take you to the following Main Menu screen as detailed below:

Table 1-0.2 Remote Control Button Description

Item	Description
◄ ►	Scroll LEFT/RIGHT
▲ ▼	Scroll UP/DOWN
MENU	Save current settings and return to live view mode
ESC	Return back to the previous menu level without saving
ENTER	Enter the selected menu option or bring up the virtual keyboard

Please Note: A new hard drive must be formatted before it can be used. Please refer to the section ' UTILITY SETUP' for further information.

1-1 RECORD SETUP

Item	Description
HDD Full	Recording options once the hard drive reaches full capacity: ▪ '**Stop**' : Stop recording ▪ '**Overwrite**': Starts to overwrite previous recorded data starting from oldest data on the hard drive.
OSD position X	Setup (On Screen Display) X axis position on the screen
OSD position Y	Setup OSD Y axis position on the screen
OSD position setup	Further setup options on the OSD
Video Preservation	Select the check box to setup the Video Preservation period. This function will automatically delete recorded data after the selected preservation period has expired.
Quality & Frame Rate Setup	Setup the quality and frame rate for each channel

Please Note: 4 camera DVR will display 4 channel options and 8 camera DVR will display 8 channel options.

1-1.1 Quality & Frame Rate Setup
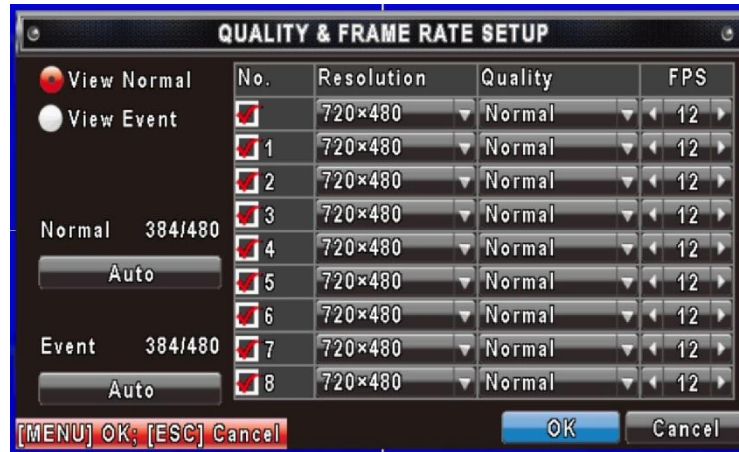
Item	Description
Normal/Event Setup	Select a recording mode from Normal or Event. Normal recording to a standard recording mode defined by the user. Event recording refers to recordings either Motion Detection or an Alarm sensor being triggered (setup of Event recording is detailed further in this section)
Resolution	Select recording resolution: NTSC:352x240, 704x240, 704x480 PAL:352X288,704X288,704X576
Record Type	Setup quality and Frame Per Second (FPS) for each channel
No.	Enable/disable which channels record by checking/unchecking the relevant boxes.
Quality	Select a recording quality: Below Basic/ Basic/ Normal/ High/ Highest
FPS	Set the recording FPS for each individual channel
Auto	Assigns each channel with the maximum available FPS

Please Note: 4 camera DVR will display 4 channel options and 8 camera DVR will display 8 channel options.

1-2 EVENT SETUP

Item	Description
Motion Setup	Select to set up the motion detection feature
Sensor Setup	Enter to set up the sensor detection feature

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1-2.1 MOTION SETUP

Item	Description
Alarm Duration (Seconds)	The number of seconds the alarm buzzer remains activated once motion has been detected
1~8	Select chosen channel to apply the motion detection
Enable	Select checkbox to Enable/Disable motion detection for each channel
Sensitivity	Drag the on–screen white bar or press ◄ ► to set up the motion detection sensitivity from value 0 to 10 for each channel (i.e. the higher value the greater the sensitivity)
Motion Area Setup	Select to setup motion detection area

Please Note: 4 camera DVR will display 4 channel options and 8 camera DVR will display 8 channel options.
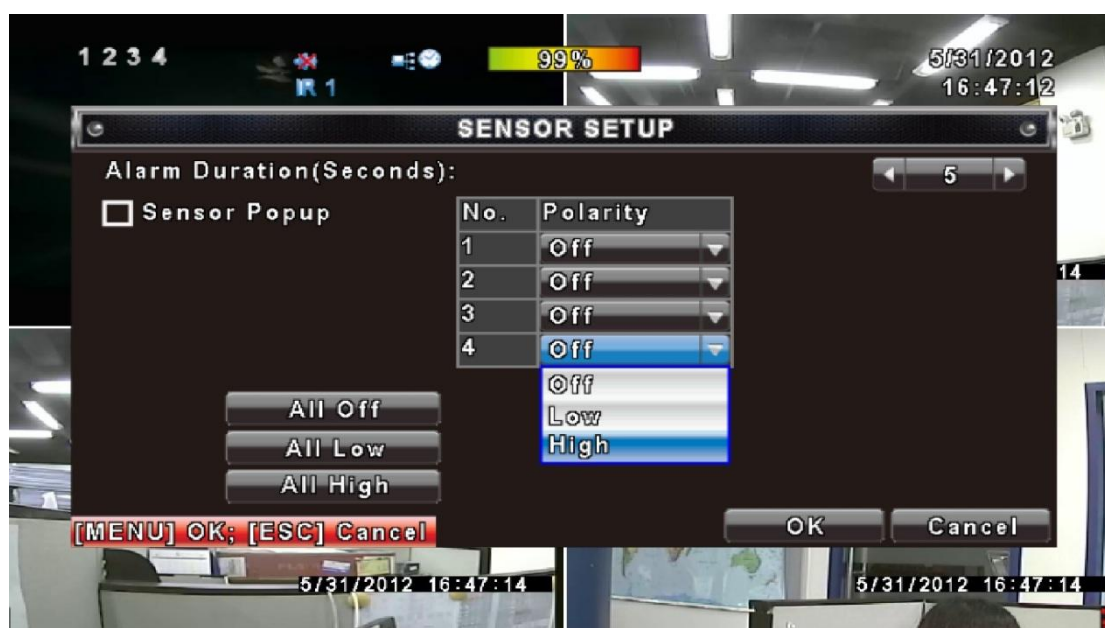
1-2.1.1 MOTION AREA SETUP

The motion detection has been divided into 22x18 grids. The default detection area is a full screen. This area is transparent for local access and purple for remote access users.
(i.e. areas deselected from motion detection are marked in red for both local and remote access users).

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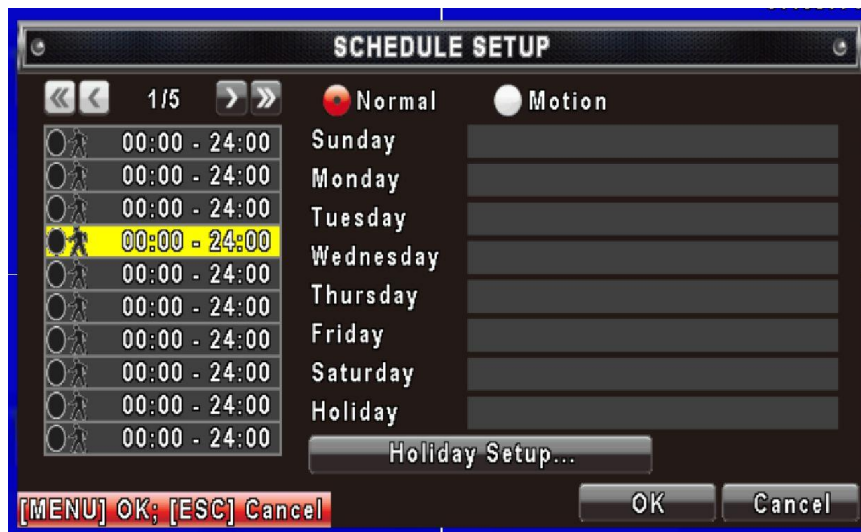| Item	Description
Mask Mouse Selection	Check box to enable/disable using the mouse to set the motion detection area (i.e. drag and select)
All Area Detection	Selects the entire screen as a detection area.
Mask All Area	Deselects the entire screen as a detection area.
Continue	Continue into further setup options
Exit & Save	Exits the function and saves any changes to the settings
Exit & Discard	Exits the function and does not save any changes to the settings

1-2.2 SENSOR SETUP

Item	Description
Sensor Popup	Check the box to Enable/Disable Popup screen function for all channels (i.e. the corresponding channel will pop-up in a full screen mode when an alarm sensor has been triggered)
All Off	Switches all alarm sensors off
All Low	Sets all sensors to low polarity (see below for further details)
All High	Set all sensors to high polarity (see below for further details)
Sensor Polarity	Click or press ▼ to select between OFF or HIGH and LOW voltage for triggering sensor detection: Low Polarity：When the sensor has been triggered, the sensor alert will be activated (i.e. Normally Closed) High Polarity：When the sensor has been triggered, the sensor alert will be de-activated (i.e. Normally Open) Off ： Sensors alerts are de-activated

Please Note: 4 camera DVR will display 4 channel options and 8 camera DVR will display 8 channel options.

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1-3 SCHEDULE SETUP

Except from starting recording manually, you can also setup the recording time by weeks and a specific schedule which includes normal, motion detection, and recording type.

Item	Description
Page	Each page provides 10 schedules for setup (5 pages in total)
Holiday Setup	Select to enter to setup holiday function, (setup up to 50 days, other than weekends)
View Event/Motion/ Sensor Setup	View Normal/Motion/Sensor setup for holidays

Please Note: 4 camera DVR will display 4 channel options and 8 camera DVR will display 8 channel options.

1-3.1 Schedule Record Setup

Select the chosen time on the left side menu to display the setup menu (as shown below). This allows you to setup the schedule in further detail by Time, Motion Detection, specific days of the week and days designated as holidays.

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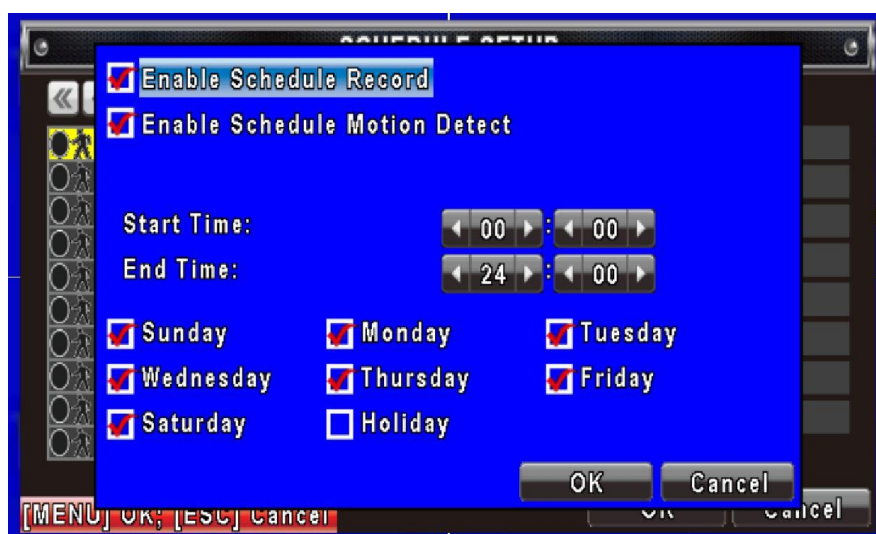
1-3.2 Holiday Setup

The user can select the specific dates to be designated as holidays, which can then be specified during the configuration of scheduled recording.


1-4 CAMERA SETUP

Item	Description
1~16	Select to choose the setup camera setup requirements for each individual channels.
Mask	Select the checkbox to enable/disable the mask function (i.e. within live mode).
Sharpness	Drag the bar or press ◄ ► to adjust Sharpness of your camera from value 0 to 15.
Brightness	Drag the bar or press ◄ ► to adjust Brightness of your camera from value 1 to 255.
Contrast	Drag the bar or press ◄ ► to adjust Contrast of your camera from value 1 to 255.
Saturation	Drag the bar or press ◄ ► to adjust Saturation of your camera from value 1 to 255.
Name	Set up name of each individual channel.
Volume	Audio volume under LIVE mode and recording mode can be adjusted.

1-5 ACCOUNT SETUP
The Account Setup menu is used to provide a maximum of 4 users' individual and unique access to the DVR over a network setup. The default administrator account username and password is **'admin'** and '**123456**'.

Please Note: The default password remains the same after firmware upgrade
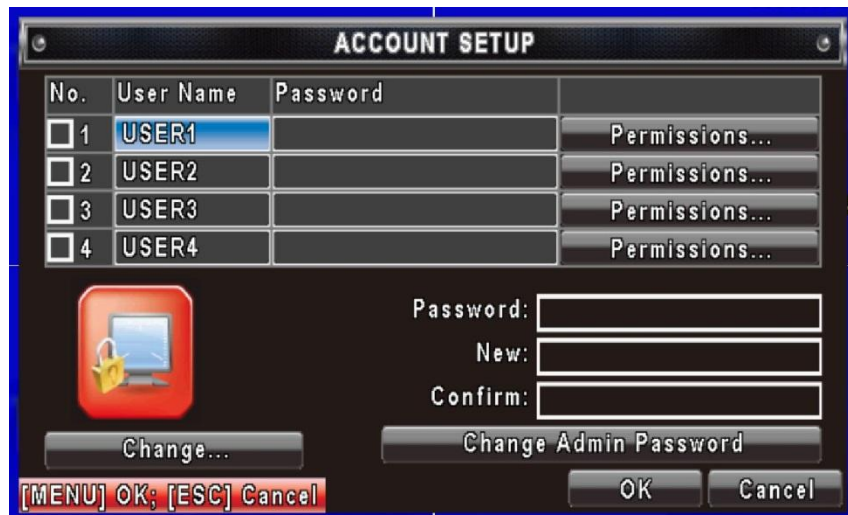
Item	Description
No.	Select checkbox to activate the chosen user account.
Username	Set up username
Password	Set up password for each user. Password requires 8-digits which can be a mixture of letters and numbers (passwords are case-sensitive)
Permissions	Set up permissions/rights for each user
Change Admin Password	Select to change administrator's password
Picture (Change)	Select to change/set a user's picture

1-5.1 Permission Setup
The permission setup is used to provide individual users (maximum of 4 users) tailored access to the DVR's functions. The administrator can select the relevant checkboxes (as detailed below) to give access to the Setup Menu, Network Operations, PTZ function, Playback, Utility, Backup. Access the password expiry dates and Masks on specific channels while playing back can also be specified.

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1-5.2 User Picture Setup

Users can select the 'Change' button then select a picture to be added to their profile:
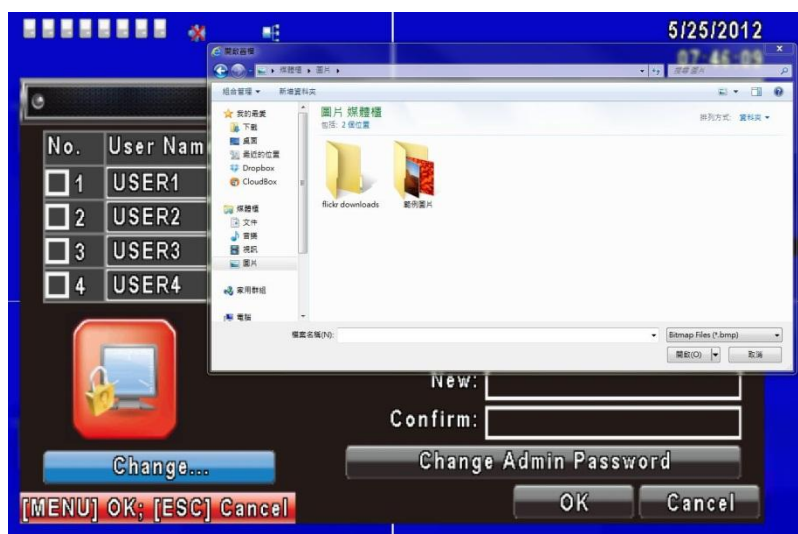
1-6 NETWORKING SETUP
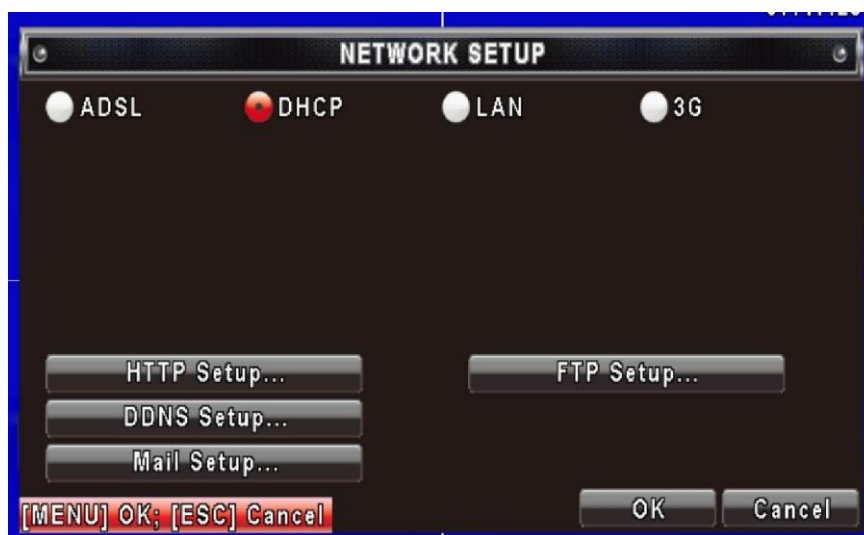
Item	Description
Connect type	Setup mode for network connection: **(ADSL, DHCP, LAN, 3G).**
HTTP Setup	Select to set up HTTP
DDNS Setup	Select to set up DDNS
Mail Setup	Select to set up email
3G Setup	Select to set up 3G network

1-6.1 NETWORKING SETUP
There are four methods that allow the DVR to be connected to a network:

1-6.1.1 DHCP
When DHCP is selected, IP address will be assigned by DHCP server automatically.
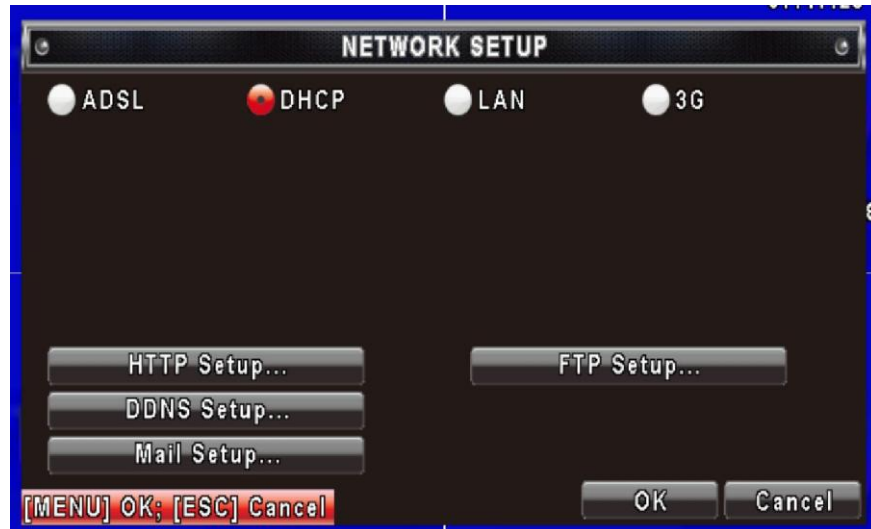
1-6.1.2 LAN
Select LAN for network connection, the following information is required:
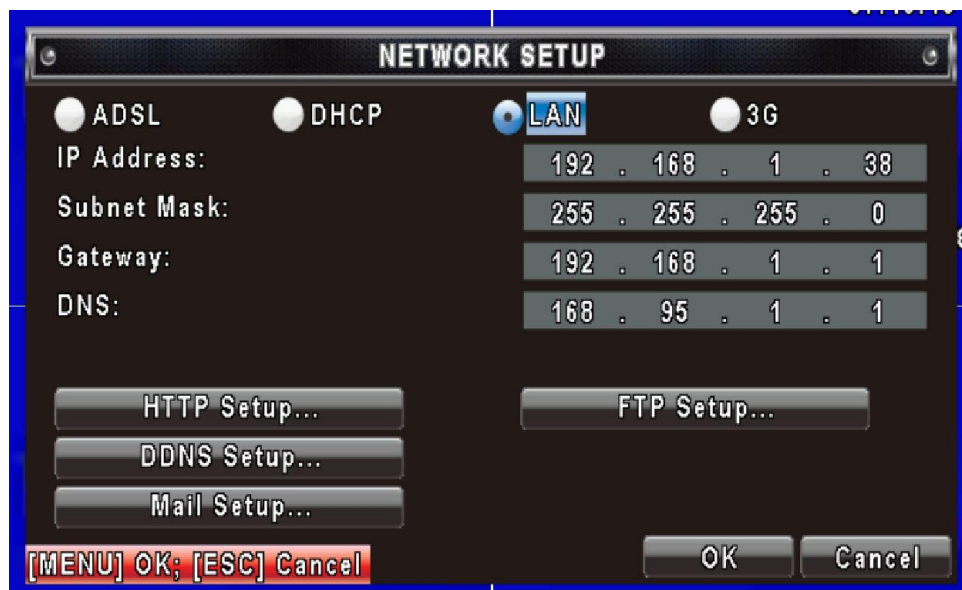
Item	Description
IP Address	Enter IP address set by yourself or your systems administrator
Subnet Mask	Enter IP address of Subnet Mask provided by You or your Systems Administrator
Gateway	Enter IP address of Gate way provided by You or your Systems Administrator
DNS	Enter DNS address set by yourself or your systems administrator **(Please Note: The correct DNS address must be entered for DDNS function).**

1-6.1.3 ADSL
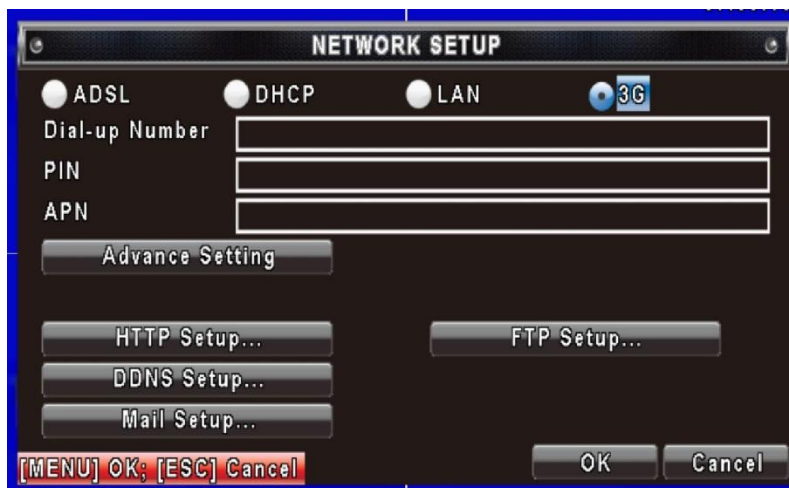
Select ADSL for network connection, the following information is required.
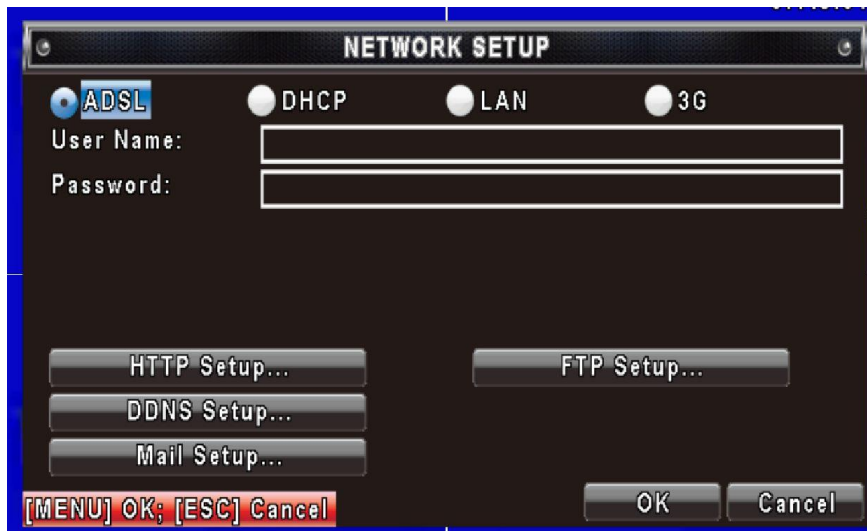

Item	Description
User Name	Enter user name provided by user's ISP
Password	Enter password provided by user's ISP

1-6.1.4 3G

Select 3G for network connection, the following information is required.

Item	Description
Dial-up Number	Dial-up Number, Determined by the ISP
PIN	Enter SIM card password
APN	Enter Determined by the ISP
Advance Setting	The advanced settings
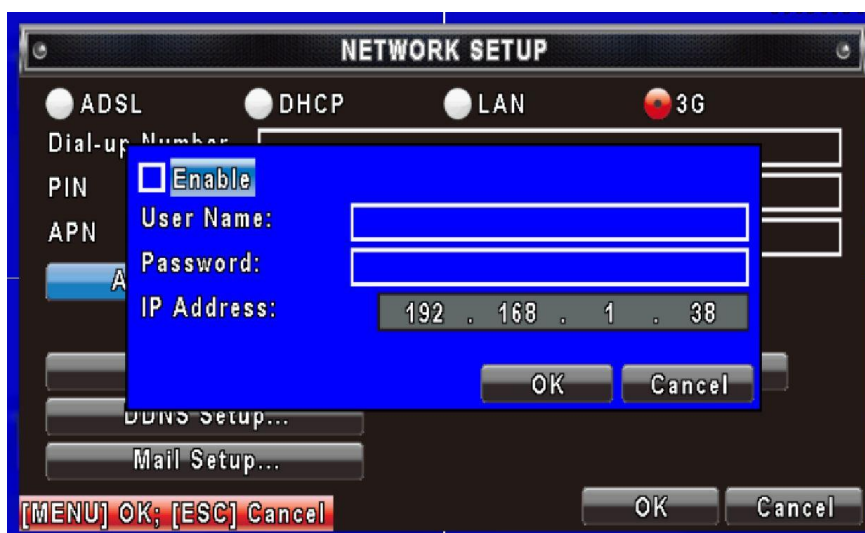
Item	Description
Enable	Select checkbox to enable advanced settings
User Name	Enter username (provided by the ISP)
Password	Enter password (provided by the ISP)
IP Address	Enter the fixed IP address (provided by the ISP)

Please Note: This feature may not work with all 3G cards (Please contact technical support for further details)

1-6.2 HTTP Setup
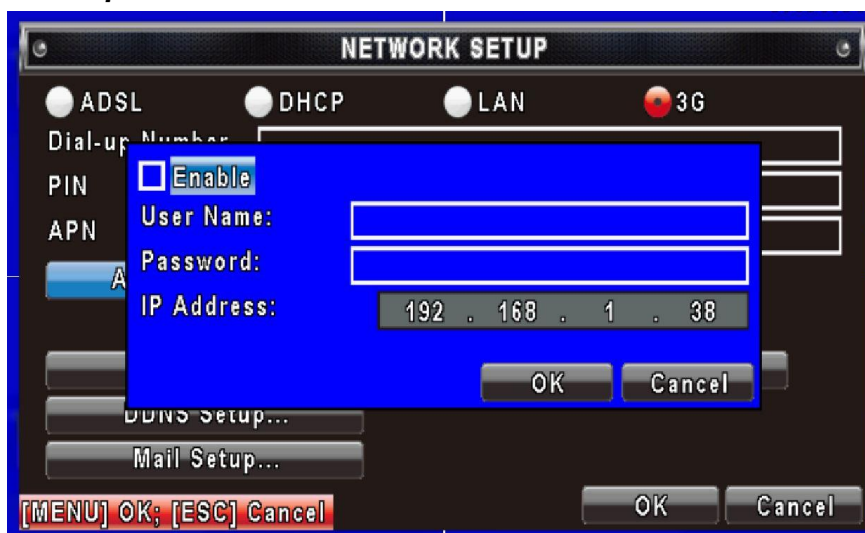
Item	Description
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function is activated.
Port	Enter a valid port value from 1 up to 65000 (The default value is 80)
Auto	Assign each channel with its maximum fps
No.	Selected channel number
Quality	Setup the recording quality from the options: Basic, Normal, High, and highest
FPS	Setup the recording FPS

1-6.3 DDNS Setup

Item	Description
Enable DDNS	Select checkbox to enable/disable DDNS function.
DDNS Server	Enter the registered DDNS Server: (i.e. details taken provider from such as no.ip.org)
Host Name	Enter the completed registered SMTP Server. (Including username + Server) If the user name is '**home'** and you choose **'john-home.com'** as your server, you should enter: **home.john-home.com'**
User Name	Enter user name.
Password	Enter password.

Please Note: Refer to appendix for further detail on setting up a DDNS Server

1-6.4 Mail Setup

When specific event occurs (i.e. Video Loss, Motion Detection etc.) an email will be sent to the receiver's account automatically. Setting up email accounts is detailed below:

Item	Description
Enable E-mail Notification	Select checkbox to enable/disable E-mail Notification function.
SMTP Server	Enter to set up SMTP Server name.
Port	Select specific Port (if required).
User Name	Enter to set up User Name.
Password	Enter to set up Password.
Sender E-mail	Enter to set up e-mail address of receivers (up to 10 addresses can be set).
Trigger Event	Enter to select which events (Motion, Sensor and Vloss (Video Loss) will be emailed notifications.
Receiver E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.

1-7 PTZ & RS485 SETUP

The DVR allows users to control PTZ functions of your camera. Please ensure that the PTZ camera is connected correctly to the RS-485 port of DVR.

Item	Description
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.
Protocol	Set up the protocol of PTZ cam. The supported protocols are **PELCO-P, PELCO-D, KND, LI-LIN, SAMSUNG, LG, AVTECH.**
PTZ ID	Select ◄ ► to set up PTZ ID (The ID range is from 1 to 64)
Baud Rate	Select Baud Rate for PTZ from 2400, 4800, 9600,19200
RS-485 ID	Select RS-485 ID (values from 1 to 64)
RS-485 Baud Rate	Select RS-485 Baud Rate from 2400. 4800, 9600,19200
Keyboard	Select Keyboard for use with the PTZ camera

1-8 SYSTEM SETUP

Item	Description
DVR Name	Set the name of the DVR. This will be displayed when users login remotely)
DVR Location	The location of DVR will be shown when users login remotely
Language	Use the ▼ button to select OSD language.
Remote ID	Setup the ID of the remote control.(the Default ID is set to 0)
Display Setup	Enter to set up the DVR's display options
Date/Time Setup	Enter to set up the DVR's Date/Time
Device Setup	Enter to set up Buzzers & Relay options
Spot Setup	Enter to set up Spot monitor

1-8.1 DISPLAY SETUP

Item	Description
Auto-Seq Interval	Set up duration time (in seconds) for the interval between the channel switching channels under Auto-Sequential mode.
Show OSD	Turn On / Off OSD display.
Show DVR Status	Turn On / Off DVR illustration and record status display.
Show Date/Time	Turn On / Off date and time display.
Show Channel Name	Turn On / Off channel name display.
Border Color	Set up the color of border in LIVE, PLAYBACK mode. (Red, Green, Blue).

1-8.2 DATE/TIME SETUP

Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
Date/Time Position	Choose the position of Time and Date display.
Change Date & Time	Setup time and date of DVR.
Time Zone Setup	Set up GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server.

1-8.2.1 CHANGE DATE & TIME

This allows the user to setup the DVR's date and time, as detailed below:

1-8.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP

Set up time zone and activate Daylight Saving Time function according to user's DVR location.
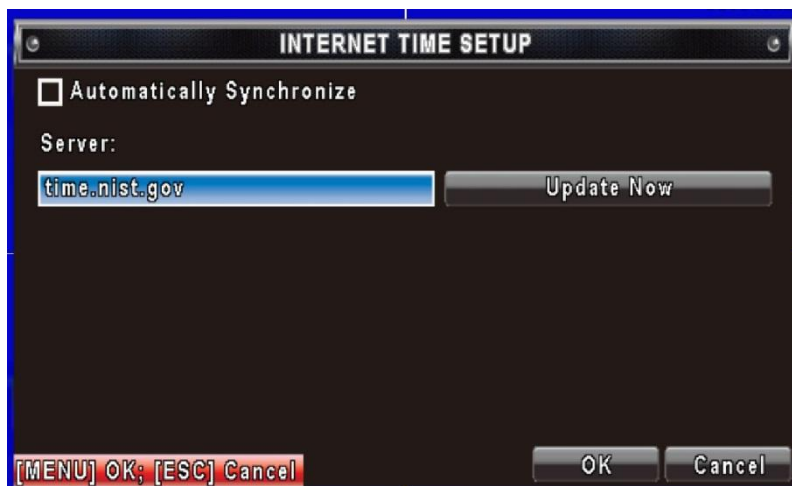

Item	Description
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13
Daylight Saving Time	Turn on/ off Daylight Saving Time

1-8.2.3 INTERNET TIME SETUP

Synchronize your DVR time with an internet time server:

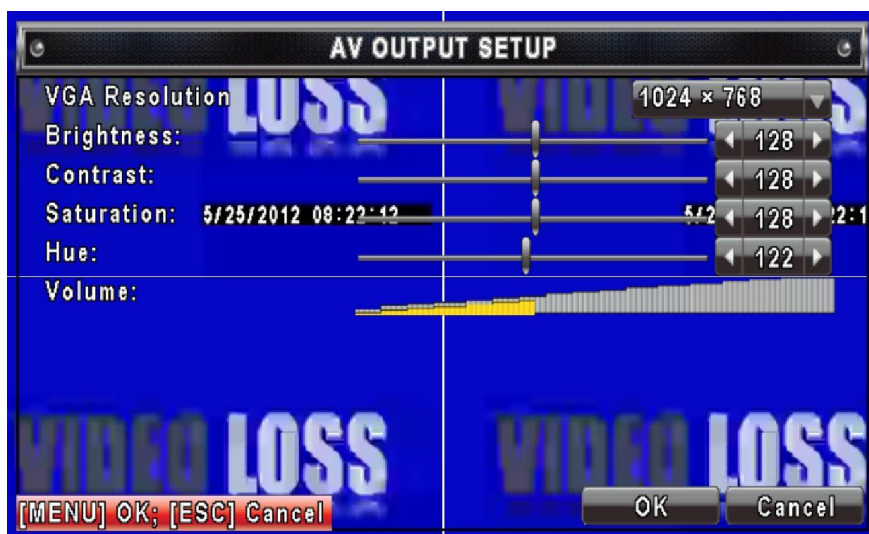| Item	Description
Automatic Synchronization	Check to enable DVR's automatic synchronization function. Once selected the DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
Update Now	Select to update/synchronize the time.

1-8.3 BUZZER & RELAY SETUP

Item	Description
Mouse Speed	Select the mouse cursor speed.
Buzzer Setup	Buzzer & relay setup.
AV Output Setup	Into the Audio/Video setup.

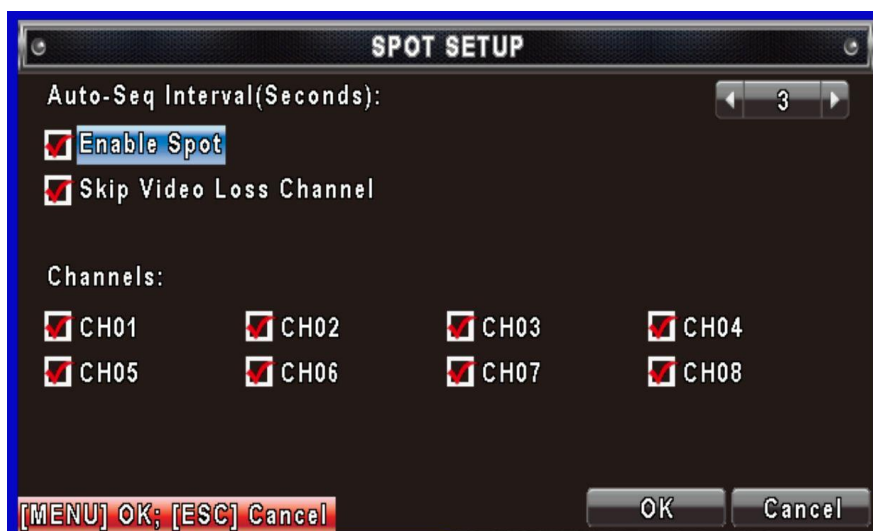| Item	Description
Key Tone	Enable/Disable sound/tone when the front panel buttons are used.
Buzzer	Enable/Disable which functions will generate a buzzer sound (i.e. HDD error, Video Loss, Motion Detection and Sensor/Alarm triggers).
Relay	Enable/Disable which functions will allow a signal to be sent to the RELAY OUT (Alarm Output) (i.e. HDD error, Video Loss, Motion Detection and Sensor/Alarm triggers).

Item	Description
VGA Resolution	Adjust the resolution from 800x600 / 1024x768 / 1280x1024
Brightness	Adjust the brightness
Contrast	Adjust the contrast
Saturation	Adjust the saturation
Hue	Adjust the hue
Volume	Adjust the volume

1-8.4 SPOT SETUP

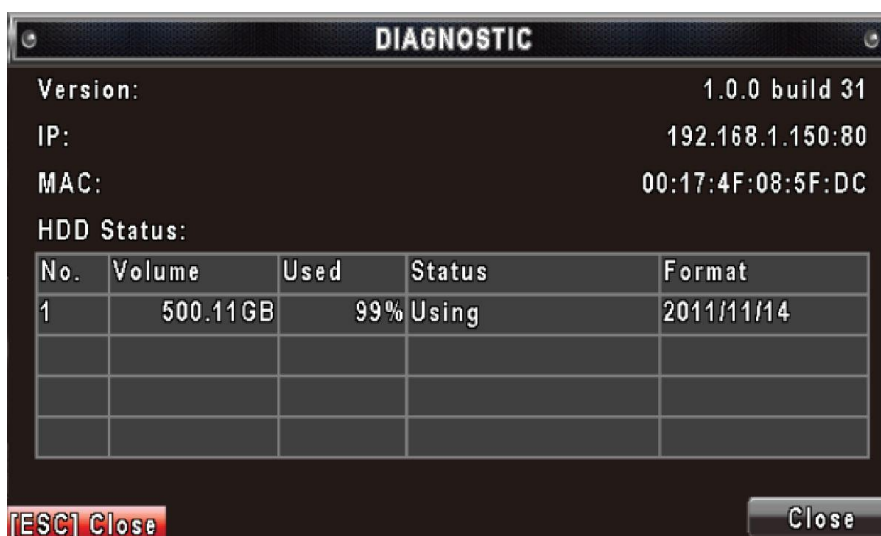| Item	Description
SPOT MODE	Check to select the chosen spot mode.
Interval (Seconds)	The duration time in seconds for the interval between channels under SPOT mode.
Skip Video Loss Channel	Select to skip channels without video signal.

1-9 UTILITY SETUP
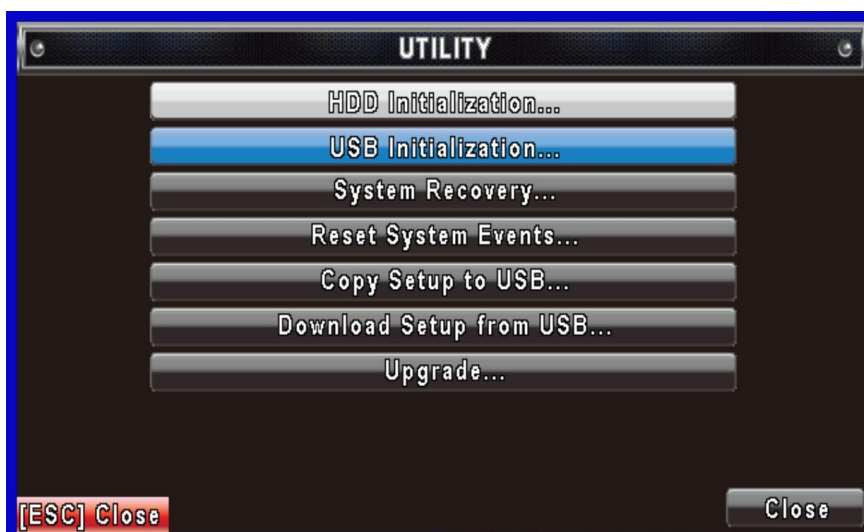
Item	Description
HDD Initialization	Select to enter hard disk initialization (i.e. format) menu but please ensure the DVR has stopped recording. On entering the menu select the hard drive to be formatted and then press 'Start'. Once the HDD has formatted successfully the DVR will display the text 'Succeed'.
USB Initialization	Select to enter USB initialization (i.e. format). Press 'Start' to begin the procedure and once the HDD has formatted successfully the DVR will display the text 'Succeed'.
System Recovery	Restore the DVR to the original factory settings
Reset System Events	Reset all the recording events in DVR.
Copy Setup to USB	This allows the user to copy the DVR configuration (i.e. Record/Display/Motion settings etc.) to a USB device. The file will be saved as '**sdvr_conf.dat**' on your USB memory stick.
Download Setup from USB	Select to download a saved configuration from a USB device and apply to the DVR.
Upgrade	Allows the user to upgrade the DVR firmware via a USB device. Please ensure that the DVR is not recording before applying the new firmware update. Please note that the System will reboot automatically once the upgrade is completed.

Please Note: Do not turn off the power to the DVR or remove the USB device whilst upgrading as it may cause an incomplete firmware upgrade and may damage the DVR.

1-10 DIAGNOSTIC

Item		Description
Version		This displays the current firmware version of DVR
IP		This displays the connected IP address of DVR. If disconnected from network the screen will display the following: **'NETWORK DISCONNECT'**
MAC		MAC Address of DVR
HDD Status **(Hard Drive)**	**No.**	HDD number
	Volume	HDD Capacity
	Used Rate	Percentage of space used on the HDD.
	Status	Displays the HDD status. **USING:** means the HDD is being used for recording now **GOOD/BAD:** means the HDD has a known/unknown format for the DVR. Please Note: A new hard drive must be formatted before it can be used in the DVR.
	Format Time	This shows the last date the hard drive was formatted.

CHAPTER 2 - BACKUP & SEARCH

2-1 BACKUP SETUP

Users can backup any segment of recorded data within a specified time frame, using a USB memory device which must be connected to the DVR.

The backup file that is produced by the DVR is an *IRF* file which is designed to be played back with the software called '**Ifileplay'** and **'CMS'.**

Please Note: When using a USB flash drive to backup data, the DVR will automatically copy the 'Ifileplay' software onto the USB flash drive.

Item	Description
From	The start time of the backup file.
To	The end time of the backup file.
Device	Select the USB or PC as the backup device.
Free Space	The available space on your backup device (not available for PC backup).
Refresh	Recalculate the available space of backup device (not available for PC backup).
Required Space	Displays the size of the backup file.
Calculate	Refreshes the calculation of the size of backup file.
Start	Commences the backup file function. **Please ensure that the backup device has enough space before commencing the backup procedure.**

Please Note: Do not turn off the power to the DVR or remove the USB device whilst upgrading as it may cause an incomplete firmware upgrade and may damage the DVR.
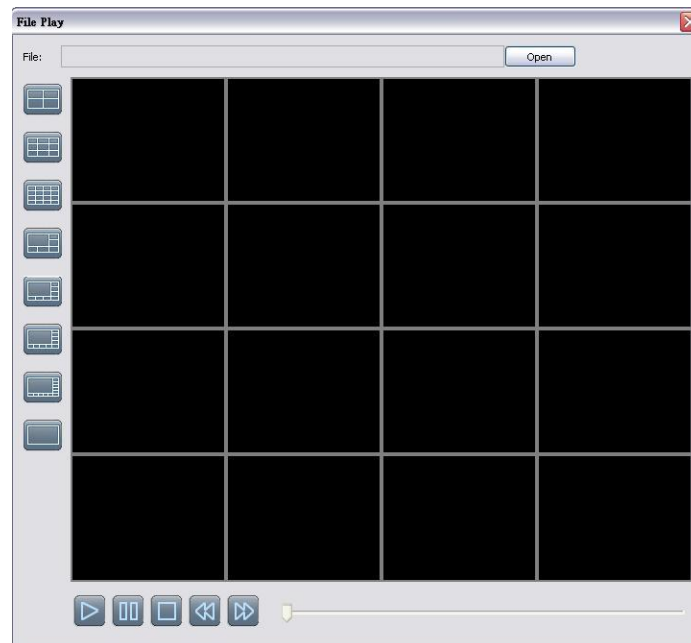
iFileplay Use Method

▪ **Step 1:** Install 'iFileplay' software to your PC (i.e. 'iFileplay' file will be included on the installation CD provided with this DVR).

Please Note: When using a USB flash drive to backup data, the DVR will automatically copy the 'Ifileplay' software onto the USB flash drive.

▪ **Step 2:** Double click the file **'ifileplaypack.exe'** to setup the software.

▪ **Step 3:** Once the software has successfully loaded please click the **'Open'** and select the chosen backup file to play.
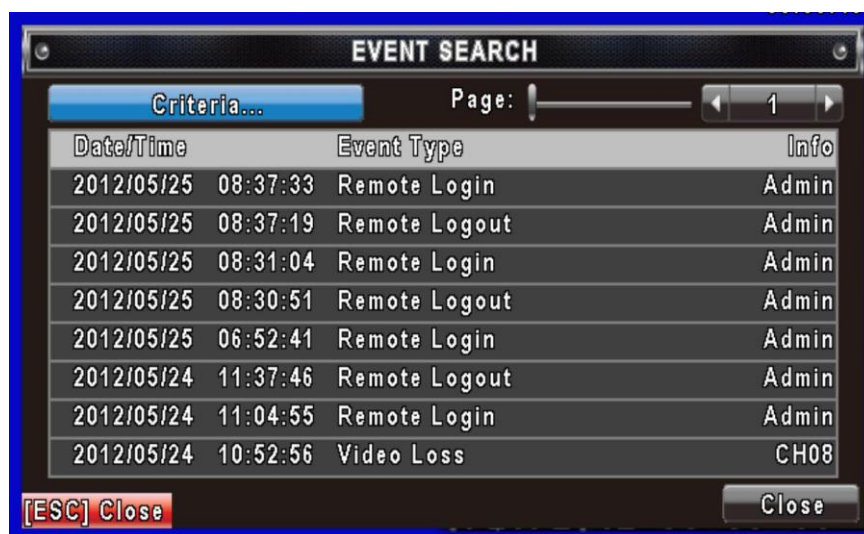
Please Note: If the software does not play the chosen file it may not be in the correct format for it to play.

2-2 SEARCH SETUP

Item	Description
Event Search	Select to enter the Event Search Menu
Time Search	Select to enter the Time Search Menu

2-2.1 EVENT SEARCH

The DVR automatically records events with channel information such Event Type, Date/Time, User etc. If there is recorded data for an event, a yellow signal ▷ will be shown on the left side of the time information. Rest your cursor under the line and press 'enter', or left click your mouse to playback the recording data.

Please Note: Event Records will still be generated even when a hard drive is not installed or the record function has not been activated. However, the event record itself can't be viewed after selecting it.

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Item	Description	
Criteria	Setup parameters of the event search.	
Page	Switch between the various pages of events.	
Date/Time	Date/time when the event occurred.	
Event Type	Event types are defined as the following:	
	MOTION	Motion Detected
	Video Loss	Video Loss
	Remote Login	User log-in over the network
	Remote Logout	User log-out over the network
	Power On	DVR has been switched on
	HDD Full	HDD space has reached full capacity
	HDD Error	HDD error has been detected
	Reboot	DVR has been rebooted
Info	The channel where event has occurred or the username that has logged in.	

2-2.1.1 CRITERIA SETUP FOR EVENT SEARCH

The amount of events generated can be numerous and the users can make the search more efficient by clicking 'Criteria', and selecting specific parameters to search within. The search results will be limited to a specific period of time but the user can also select functions such as Motion Detection, Video Loss etc.

2-2.2 TIME SEARCH

TIME SEARCH can search for the specific time of recording data to playback. Users can press 'Enter' or left click on the desired date to playback. Please note that dates that contain recorded data are marked with a red square □.

Users can further narrow the results by clicking on a chosen date and then set a specific time range (hour/minute/second), as shown below:

Chapter 3   REMOTE ACCESS

This section explains how users can access the X4D1H via the **iWatchDVR** software, an internet browser and smartphone mobile apps. Please note the following:

- To access the DVR locally (LAN) users can simply use the network IP address, as detailed in section 3 '**Network Setup'**.
- If users are accessing their DVR's remotely, from a location outside their local network (i.e. from home), they will need to ensure that they have suitable fixed IP address (please consult your Internet Service Provider for further information).
- Users may need to configure their router so that they can access their DVR remotely, a process known as 'Port Fowarding'. Please consult your technician or our technical support for further details.

Please Note: The address used in this image is only for demonstration purposes only. The actual DVR address will be specific to the local network environment or a user defined address.

3-1 Remote Access via Software

The DVR Remote Desktop software will allow users to remotely access and control the DVR from a PC. Please note that the software currently supports Windows XP SP2 and above.

▪ **Step 1**: Enter the IP address of the DVR in an Internet browser (i.e. Internet Explorer)
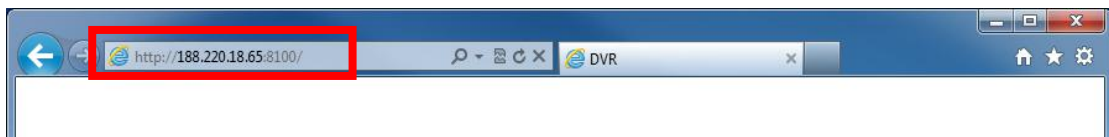
▪ **Step 2**: The user will then be prompted for an account Username and Password:

▪ **Step 3**: The user will then be taken to an access page (detailed below) and can select the relevant download link (i.e. **iWatchDVR** for PC or Mac) begin the download.

- **Step 4**: Run/install the downloaded **iWatchDVR** software and the user will be prompted for the login details to the DVR (IP address, Port Number, Username and Password):

Please Note: The drop-down menu can be used to record previous IP addresses. Press "Clear" to clear IP address history.

- **Step 5:** Once the user authentication has been confirmed the **iWatchDVR** software will have access to the DVR:

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### 3-2 Remote Access via Internet Explorer

The DVR Remote Desktop software will allow users to remotely access and control the DVR via an Internet browser. Please note that the software currently supports Microsoft Internet Explorer 7, 8 and 9.

- Please follow **Steps 1-2** (page 46)

- **Step 3:** Click on **'iWatchDVR for Internet Explorer 7/8/9".**

Please Note: The user will be prompted to download/install specific ActiveX controls, which are required to access the DVR, when clicking this link for the first time.

**Step 4:** The link will take the user directly into the DVR
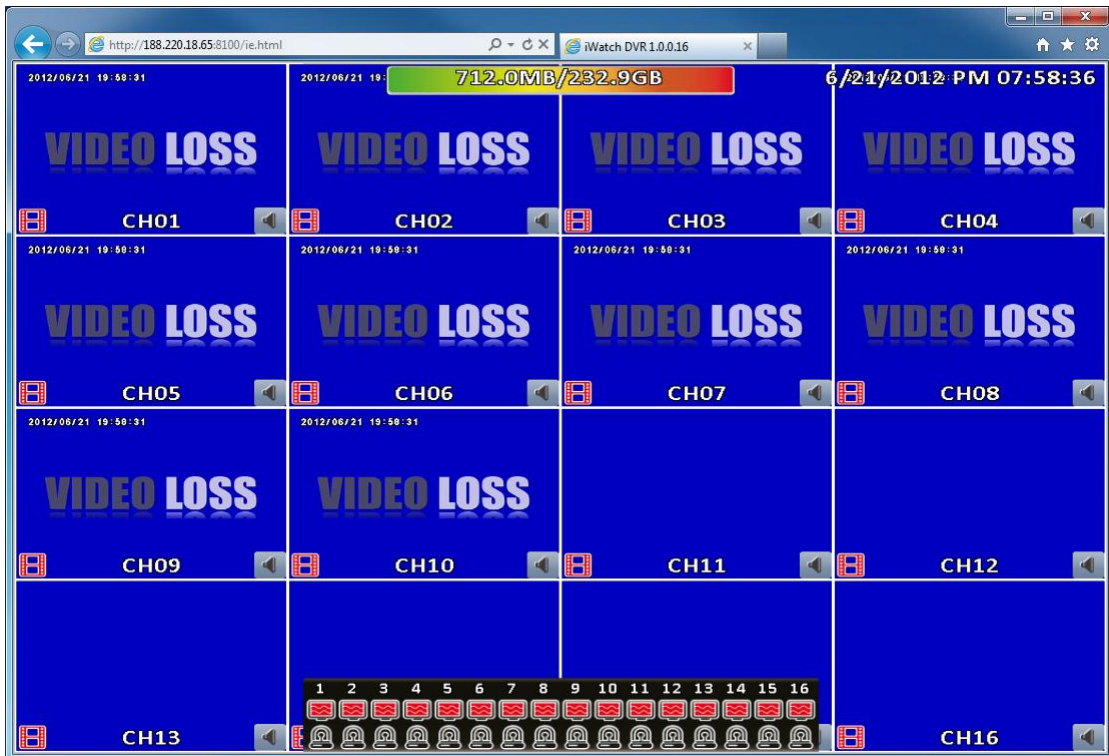
Please Note: The default display when logging in via an Internet Browser is 16:9 (Widescreen mode)

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Additionally users at can access a simpler version of the software by selecting the **'JPEG Viewer**' option at **STEP 3**:


This allows the user to log into one channel at a time (using the dropdown menu) and generates low frame rate image snapshot, which updates itself every few seconds (detailed below):
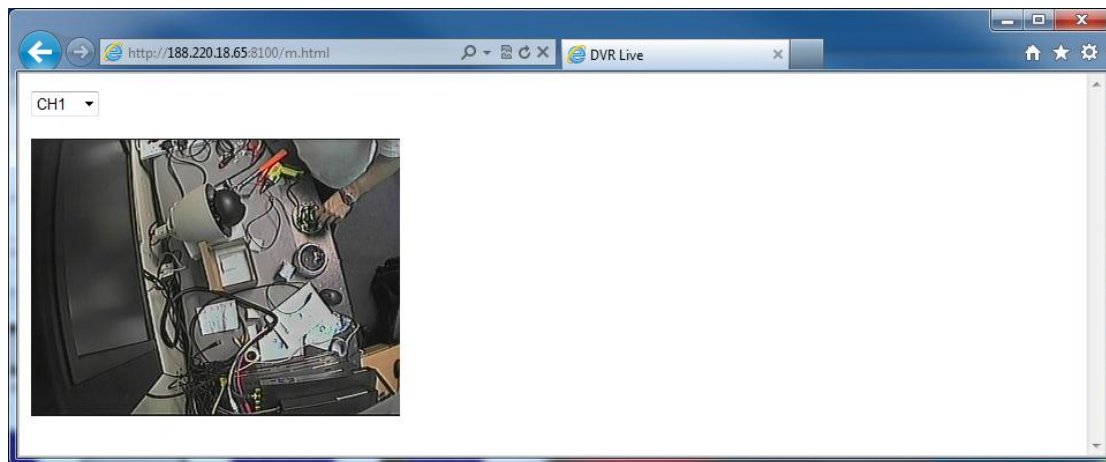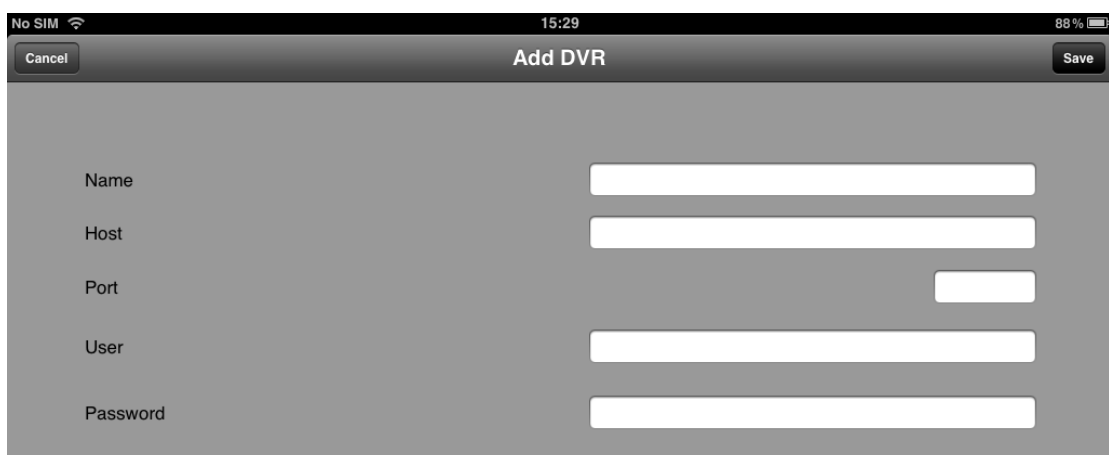
3-3 Remote Access Via Smartphone Apps

Smartphone apps that allow the user to access their DVR are currently available for Android, iPhone/iPad and Windows Mobile. These apps provide a host of features that allow the user to view live footage (single screen or multi-view options), control PTZ cameras, Zoom, Backup, and search events/logs.

- **Step 1:** Download the **iWatchDVR 2** smartphone apps from the respective online app stores Links direct to the smartphone App stores can be found on the DVRs web access page, as detailed above (Step 3 for setting up remote access):
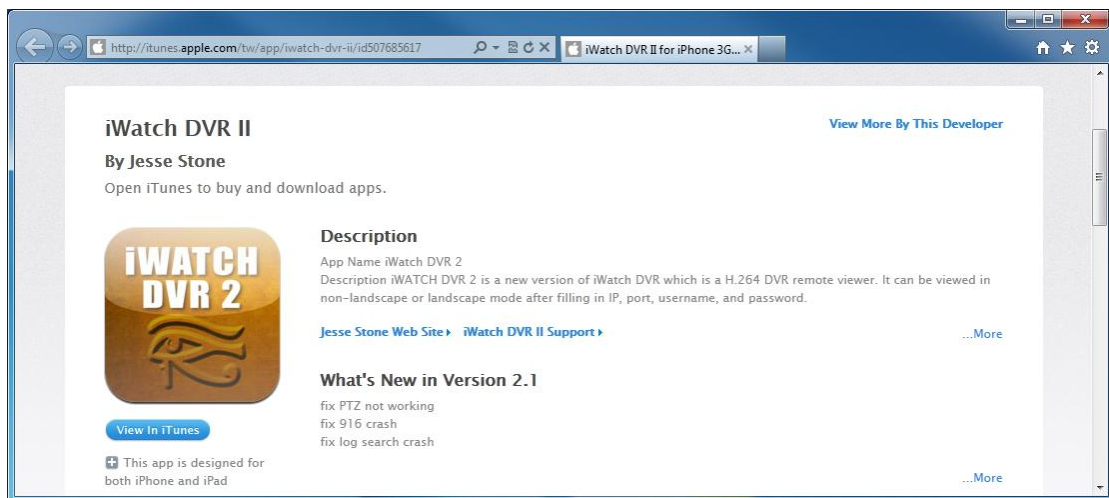
- **Step 2:** The user can save the relevant DVR access details, as detailed below for iPad/iPhone users:

▪ **Step 3:** Select to the chosen DVR and once the user details have been correctly verified they will be taken to the main access page.

3-4Minimum Software Requirements

The remote desktop software requires minimum hardware requirements to operate the software effectively, which are detailed below:

CPU	Intel Pentium 4 above
OS	Microsoft Windows 7, Windows Vista, Windows XP SP2 above
RAM	512M above
VGA Card	Needed to support DirectX9.0 (Above)
Anti-virus software (firewall)	Suitable port and access to be available (i.e. port 80) for access to the DVR via Internet Explorer
Others	DirectX 9.0 above

Please Note: Users can download iWatchDVR smartphone apps for Android, iPhone/iPad and Windows Mobile directly from the links found on the DVR web access page (as detailed on Step 3 for setting up remote access)